

## CLAIMS

1. A liquid separator for separating liquid from gases and comprising a water trap (1) that includes a container (3), a connection (5) for incoming gas flow, a separation chamber (4) that includes a filter (7), and at least one connection passageway (9, 10) for leading liquid-free gas to an analysis instrument, characterised in that the water trap (1) can be removably fitted in a holder unit (2) connected to the analysis instrument; and in that the holder unit (2) is provided with connection devices (15, 16) for accommodating the connection passageway (9, 10).

2. A liquid separator according to Claim 1, characterised in that the connection device (15, 16) is a quick-fastener device for connection to the connection passageway (9, 10).

3. A liquid separator according to Claims 1 and 2, characterised in that the water trap (1) includes two connection passageways (9, 10), and in that the holder unit (2) includes two connection devices (15, 16).

4. A liquid separator according to any one of the preceding Claims, characterised in that the holder unit (2) includes a first electric contact element (18) which functions to detect the presence of a liquid trap (1) in the holder unit and to stop the flow of sample gas to the analysis instrument when no water trap is fitted in the holder unit.

5. A liquid separator according to any one of the preceding Claims, characterised in that the holder unit (2) includes a second electric contact element (17) which functions to detect the type of water trap (1) fitted in the holder unit and

to adjust the analysis instrument in accordance with the type of water trap used.

6. A liquid separator according to Claim 5, characterised in  
5 that the water trap (1) is designed in different sizes for  
infants and adults; and in that one size includes means for  
actuating the second electric contact element (17) of the  
holder unit.

7. A liquid separator according to any one of the preceding Claims, characterised in that the water trap (1) is intended for one-time use only.